

CLAIMS

1. A resin composition for a foam comprising:
a branched rubbery olefin based soft resin (C)
5 obtained by a kneading reaction of an organic peroxide
crosslinking type olefin based copolymer rubber (A) and an
organic peroxide decomposing type crystalline olefin resin
(B),
wherein a gel fraction (a weight percentage of an
10 insoluble content after extraction with xylene boiled at
138°C for 3 hours) of the branched rubbery olefin based
soft resin (C) is less than 5%.
2. The resin composition for the foam according to claim
15 1, wherein a volume ratio of a component which exhibits a
mobility of 400 microseconds or more at a T_2 (spin-spin
relaxation) time by proton (H^+) pulse nuclear magnetic
resonance is 55 to 95% and a volume ratio of a component
which exhibits the mobility of less than 400 microseconds
20 at the T_2 time is 5 to 45% in the branched rubbery olefin
based soft resin (C).
3. A foam obtained by foaming a branched rubbery olefin
based soft resin (C) obtained by a kneading reaction of an
25 organic peroxide crosslinking type olefin based copolymer
rubber (A) and an organic peroxide decomposing type
crystalline olefin resin (B),
wherein a gel fraction (a weight percentage of an
insoluble content after extraction with xylene boiled at
30 138°C for 3 hours) of the branched rubbery olefin based
soft resin (C) is less than 5%.
4. The foam according to claim 3, wherein a volume ratio

of a component which exhibits a mobility of 400
microseconds or more at a T_2 (spin-spin relaxation) time by
proton (H^+) pulse nuclear magnetic resonance is 30 to 95%
and a volume ratio of a component which exhibits the
5 mobility of less than 400 microseconds at the T_2 time is 5
to 70% in the branched rubbery olefin based soft resin (C).

5. A method for producing a foam comprising:
a step of preparing a branched rubbery olefin based
10 soft resin (C) wherein its gel fraction (a weight
percentage of an insoluble content after extraction with
xylene boiled at 138°C for 3 hours) is less than 5%, by
kneading and reacting to thicken an organic peroxide
crosslinking type olefin based copolymer rubber (A) and an
15 organic peroxide decomposing type crystalline olefin resin
(B) in the presence of an organic peroxide; and
a step of foaming the branched rubbery olefin based
soft resin (C).

20 6. A method for producing a foam comprising:
a step of preparing a branched rubbery olefin based
soft resin (C) wherein a volume ratio of a component which
exhibits a mobility of 400 microseconds or more at a T_2
(spin-spin relaxation) time by proton (H^+) pulse nuclear
25 magnetic resonance is 30 to 95% and a volume ratio of a
component which exhibits the mobility of less than 400
microseconds at the T_2 time is 5 to 70%, by kneading and
reacting to thicken an organic peroxide crosslinking type
olefin based copolymer rubber (A) and an organic peroxide
30 decomposing type crystalline olefin resin (B) in the
presence of an organic peroxide; and
a step of foaming the branched rubbery olefin based
soft resin (C).